

## PEARL HARBOR SPRINGS MEASURING SITES



**Figure 15.** Map showing locations of Pearl Harbor Springs measuring sites, Oahu.

## Discharge and water-quality measurements at low-flow stations during water year 2005, Pearl Harbor Springs, Oahu

Map number (see figure 15)	Station number and name	Location	Measurement					
			Time	Date	Discharge (ft <sup>3</sup> /s)	Spec. Cond. ( $\mu$ S/cm)	Temp. (°C)	Chloride (mg/L)
1	16212950 Waikele Stream below H-1 Freeway at Waipahu	Lat 21° 23'39", long 158° 01'14" below	1245	05/10/05	0.11	636	29.0	--57
		H-1 Freeway, 100 ft upstream from cane haul road, 0.7 mi northwest of Waipahu Sugar Mill, and 0.7 mi upstream from gaging station 16213000.	1130	08/19/05	0.13	490	28.8	39
2	16213000 Waikele Stream at Waipahu	Lat 21° 23'11", long 158° 00'49", on left	0955	05/10/05	18.7	625	22.6	130
		bank 300 ft upstream from bridge on Highway 90, and 0.3 mi southwest of former sugar refinery at Waipahu.	0833	08/19/05	15.1	620	21.8	130
3	212317158003701 Kapakahi Stream above Farrington Highway	Lat 21° 23'17", long 158° 00'37",	0900	05/10/05	1.55	530	22.5	100
		upstream from two 4-ft concrete pipe culverts in parking lot of shopping center at Hanawai Circle at Waipahu, 500 ft upstream from Farrington Highway.	1050	08/19/05	1.62	543	21.4	100
4	212332158001201 Waipahu Drainage Canal above Paiwa Street	Lat 21° 23' 32", long 158° 00'12",	1115	05-10-05	3.54	535	25.8	110
		1,500 ft upstream from Farrington Highway and 0.5 mi east of Waipahu Sugar Mill, upstream from Paiwa Street bridge.	0935	08-19-05	2.67	540	24.6	110
5	212328157593601 Spring Outlet 2 West of Waiawa Spring	Lat 21° 23'28", long 157° 59'36", a	0950	05-10-05	0.23	3,970	23.0	5,800
		5-8 ft concrete box culvert 0.4 mi west of Waiawa Spring outlet and 1,200 ft east of Waipahu High School. Drains from former watercress fields (now covered) to Pearl Harbor.	0920	08-19-05	0.38	4,070	23.3	1,300
6	212330157592201 Spring Outlet 1 West of Waiawa Spring	Lat 21° 23'30", long 157° 59'22",	1035	05-10-05	0.90	5,790	24.5	1,800
		a 12-in. concrete pipe culvert 1,000 ft west of Waiawa Spring outlet and 2,500 ft east of Waipahu High School. Drains from former watercress fields (now covered) to Pearl Harbor.	0955	08-19-05	0.38	5,700	23.3	1,800
7	16214000 Pearl Harbor Springs at Waiawa near Pearl City	Lat 21° 23'36", long 157° 59'11", near	0925	05-10-05	14.4	5,470	24.3	1,700
		Leeward Community College, 0.7 mi west of Pearl City, and 9.8 mi northwest of Honolulu, about 350 ft upstream from the mouth.	0835	08-19-05	14.1	5,220	23.5	1,600

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			Time	Date	Discharge (ft <sup>3</sup> /s)	Spec. Cond. ( $\mu$ S/cm)	Temp. (°C)	Chloride (mg/L)
10	16215800	Lat 21° 24'23", long 157° 59'10", 50 ft	1300	05-10-05	0.02	707	26.5	75
	Waiawa Stream above Kamehameha Highway near Pearl City	downstream from old cane haul road in Pearl City Industrial Park, 2,000 ft upstream from Kamehameha Highway, and 0.6 mi upstream from gaging station 16216000.	1138	08-18-05	0.04	403	25.3	37
10A	16216000	Lat 21° 23'57", long 157° 58'51", on left	1139	05-10-05	2.64	782	24.5	170
	Waiawa Stream nr Pearl City	bank 100 ft upstream from lower bridge on Highway 90, 0.6 mi northwest of Pearl City, and 2.0 mi northeast of Waipahu.	1100	08-18-05	1.45	800	23.5	180
11	16216100	Lat 21° 23'44", long 157° 58'48", below	1430	05-10-05	4.93	854	25.0	200
	Waiawa Stream below H-1 near Pearl City	H-1 Freeway, 1,200 ft downstream from gaging station 16216000, and 2,000 ft east of Leeward Community College.	1256	08-18-05	3.98	835	24.9	190
12	212325157581801	Lat 21° 23'25", long 157° 58'18", at a 3-	1036	05-10-05	1.34	1,670	21.0	460
	Puukapu Site 3	ft concrete pipe 1,000 ft west of Waimano flood channel at mouth. Drains from watercress fields to Pearl Harbor.	1008	08-19-05	0.80	1,590	21.0	440
13	212325157581301	Lat 21° 23'25", long 157° 58'13", at two	0939	05-09-05	1.73	2,760	20.5	650
	Puukapu Site 2	4-ft concrete culverts on concrete roadway 100 ft north of old concrete gage house and 300 ft west of Waimano flood channel at mouth.	0816	08-18-05	1.67	2,050	21.0	580
14	212326157580901	Lat 21° 23'26", long 157° 58'09", at two	1024	05-09-05	0.52	4,470	21.0	1,400
	Puukapu Site 1	3-ft concrete pipe culverts on right bank of Waimano flood channel at mouth. Drains from watercress fields to mouth of channel.	1027	08-18-05	0.42	3,950	20.6	1,200
15	16216550	Lat 21° 23'32", long 157° 58'08", 100 ft	0900	05-09-05	0.83	479	22.0	85
	Waimano Flood Channel below H-1 at Pearl City	below Pearl Harbor bikeway, 600 ft from mouth, and 1,600 ft west of Hawaiian Electric Co. power plant at Waiau.	0930	08-18-05	0.78	464	22.6	85

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17	212333157580101 Kaluaopu Spring	Lat 21° 23'33", long 157° 58'01", at	0855	05-09-05	8.88	1,480	22.5	290
		concrete bridge on bikeway, 700 ft west of No. 1 generator in the Hawaiian Electric Co. power plant. Measures the combined flow from the watercress fields and freeway storm drain.	0825	08-18-05	7.63	1,230	21.4	320
18	16219000 Hawaiian Electric Co. Tunnel at Waiau near Pearl City	Lat 21° 23'33", long 157° 57'55",	1322	05-10-05	2.38	1,020	20.5	260
		concrete ditch at Hawaiian Electric Co. Waiau power plant, 20 ft downstream from tunnel portal, and 0.6 mi east of Pearl City.	1055	08-19-05	2.43	950	20.2	240
19	212329157575001 Makai Spring at Hawaiian Electric Co. Power Plant	Lat 21° 23'29", long 157° 57'50", south	1005	05-09-05	0.58	1,690	21.0	470
		of power plant at outlet of a 30-in. concrete pipe draining overflow from power plant and seepage from Old Rice Mill Spring into Pearl Harbor.	0925	08-18-05	0.60	1,580	20.6	430
20	212331157574101 Waiau Spring below Kamehameha Highway	Lat 21° 23'31", long 157° 57'41", below	1115	05-09-05	3.03	371	21.5	65
		Kamehameha Highway and 500 ft from outlet to Pearl Harbor. Drains from Waiau Springs.	1015	08-18-05	2.33	362	21.2	62
22	16224000 Pearl Harbor Spring at Kalauao near Aiea	Lat 21° 23'06", long 157° 56'46", at	1048	05-09-05	18.8	2,000	23.4	570
		Kamehameha Highway bridge, drains from Sumida watercress farm, 1.1 mi west of Aiea, and 7.6 mi northwest of Honolulu.	0903	08-18-05	12.2	1,960	22.0	540
23	16224500 Kalauao Stream at Moanalua Road at Aiea	Lat 21° 23'07", long 157° 56'22", at	1211	05-09-05	0.38	831	25.6	160
		Moanalua Road bridge, 0.4 mi northwest of Aiea Post Office, and 2.3 mi southeast of Pearl City Post Office.	1003	08-18-05	0.32	840	23.5	170
24	16224550 Kalauao Stream above Kamehameha Highway at Aiea	Lat 21° 23'02", long 157° 56'35", above	0857	05-09-05	0.66	952	24.2	210
		Kamehameha Highway and 1,300 ft from mouth, 1,000 ft downstream from gaging station 16224500, and 0.8 mi northwest of Aloha Stadium.	0815	08-18-05	0.58	985	22.5	220